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Fabien Houang

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EDUCATION

EPITA
MSc in Computer Science
2015-2019 | Paris, France
SCIA - Major in Data Science and Artificial Intelligence

LINKS

LinkedIn:// **houang-fabien**
Github:// **fabienhouang**
Gitlab:// **fabien_houang**
Portfolio:// **fabienhouang.github.io**

COURSEWORK

Unix Tools and Scripting
Data Structures & Algorithms
Functional Programming
Probabilities & Statistics
Big Data & Data Processing
Features Extraction
Convex Optimization
Computer Vision
Machine Learning
Deep Learning Engineering
Cloud Computing

SKILLS

PROGRAMMING
Proficient:
C/C++ • Python • Java • LaTeX
Linux shell • SQL | PostgreSQL
Comfortable:
Go • Javascript • Scala • Ruby
NoSQL | MongoDB • Rails • Django
Familiar:
Caml • Matlab • Lua

LIBRARIES & TOOLS
Proficient:
Keras • Numpy • OpenCV
Pytorch • Google Colab • VTK
OpenMP • Optuna • Neptune
Jupyter Notebook • Matplotlib
Sacred | Omniboard • GIT
GCP • Terraform • Tensorflow
Comfortable:
Pandas • Seaborn • Scikit-Learn
Familiar:
AWS • Spark • Hadoop

LANGUAGES

English	Fluent
French	Native
Chinese(Mandarin)	Proficient

EXPERIENCE

SFEIR | Agile Data Engineer
May 2021 - Present | Paris, France

- Worked for their client **L'Oreal** and collaborated on an agile work environment
- Created data processing pipelines on **GCP** using **Terraform** for IaC and **Cloud Workflows** to orchestrate and automate processing steps
- Stored processed data and created views in **BigQuery** for **Power BI** Dashboards
- Expose data through API implemented with **Flask**, running on **Cloud Run**

SIEMENS HEALTHINEERS | Research Engineer in Deep Learning
Mar 2019 - Mar 2020 | Princeton, New Jersey, United States
Skills : C/C++, Python, PyTorch, Optuna, OpenMP, OpenCV, Sacred | Omniboard, VTK

- Collaborated on **3D cardiac chambers modelization** project using 3D ultrasounds
- Trained **Multi-Agent Deep Reinforcement Learning** for landmarks detection
- Implemented and trained 3D volumes classification models on unbalanced dataset
- Optimized production code speed and optimized models hyper-parameters
- Achieved **3x faster and 10% more accurate modelization** than the base solution

III-FINANCEMENTS | Full Stack Developer
Sep 2017 - Feb 2018 | Paris, France

- Developed a management web application and statistical analysis dashboards
- Designed Front-end, Back-end, and Database Modeling using **Ruby on Rails**
- Deployed the application and is currently used by more than 80% of the staffs

LRDE - EPITA R&D LAB | Research student
Jan 2017 – Sep 2017 | Paris, France

- Worked with **G.Tochon** to implement a generic and optimized **Binary Partition Tree**, a hierarchical representation for image processing in **C++**
- Evaluated BPT noise resistance and noise influence on the structure construction

ATOS | Web Application Developer
Jun 2016 - Aug 2016 | Paris, France

- Worked for their client GRDF (Gas Networks of France)
- Created Data Visualization applications for their decision-making department
- Provided documentations on the developed applications and the source code
- Launched developed applications to Production

PROJECTS

AUTONOMOUS RACING CAR | Python, Keras
Apr 2018 – Feb 2019 | Paris, France

- Led a team of 4 students and competed against more than **20 teams nationwide**
- Built an autonomous RC car connected to a **Raspberry Pi 3** with camera module
- Collected, processed and simulated data for Deep Learning training
- Designed, trained **time and memory efficient** models to run on embedded system

CERTIFICATIONS

2021	July 21st	Google Cloud Certified Professional Data Engineer
2022	Dec 1st	Google Cloud Certified Professional Cloud Architect
2023	Apr 12th	Google Cloud Certified Professional Machine Learning Engineer